

Applicants: Adam J. Katz, et al.
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2. (Previously amended) A substantially homogeneous population of adipose-derived stem cells, comprising a plurality of the stem cell of claim 1, 147 or 148.
3. (Previously amended) The adipose-derived stem cell of claim 1, 147 or 148 which can be cultured for at least 15 passages without differentiating.
4. (Previously amended) The adipose-derived stem cell of claim 1, 147 or 148 which is human.
5. (Previously amended) The cell of any of claims 1, 147 or 148, which is genetically modified.
6. (Previously amended) The cell of any of claims 1, 147 or 148, which has a cell-surface bound intercellular signaling moiety.
7. (Currently amended) The cell of ~~any~~ any of claims 1, 147 or 148, which secretes a hormone.
- 8-138. (Canceled)
139. (Previously added) An isolated, adipose-derived multipotent cell that differentiates into cells of two or more mesodermal phenotypes.
- 140-146. (Canceled)
147. (Currently amended) An isolated adipose-derived stem cell that differentiates into two or more of the group consisting of a fat cell, a bone cell, a cartilage cell, a nerve cell, and or a muscle cell .

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148. (Previously added) An isolated adipose-derived stem cell that differentiates into a combination of any of a fat cell, a bone cell, a cartilage cell, a nerve cell, or a muscle cell.